

Amendments to the Claim:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 7 (canceled)

Claim 8 (previously presented): A microprocessor for processing various assembler codes, comprising:

a multiplexer having a first input, a second input for receiving a 0 value, and a third input receiving a parameter designating a respective assembler code and, depending on how the parameter is set, a different relative addressing takes place;

a program counter;

a computation unit for computing relative addresses;

an adding unit connected between said program counter and said computation unit, said adding unit having a first input connected to said program counter, a second input connected to said multiplexer, a third input receiving the parameter and an output connected to said computation unit;

Applic. No. 09/928,011
Response Dated July 19, 2007
Responsive to Office Action of April 19, 2007

a subtracting unit connected between said program counter and said computation unit for the relative addresses, said subtracting unit having a first input connected to said program counter, a second input connected to said multiplexer, a third input receiving the parameter and an output connected to said computation unit; and

a memory for storing an instruction length and having an output connected to said first input of said multiplexer.

Claim 9 (new): A microprocessor for processing various assembler codes, comprising:

a multiplexer having a first input, a second input for receiving a 0 value; and a third input receiving a parameter designating a respective assembler code and, depending on how the parameter is set, a different relative addressing takes place;

a program counter;

a computation unit for computing relative addresses;

a memory for storing an instruction length and having an output connected to said first input of said multiplexer;

Applic. No. 09/928,011

Response Dated July 19, 2007

Responsive to Office Action of April 19, 2007

and

an adding unit connected between said program counter and said computation unit, said adding unit having a first input connected to said program counter, a second input connected to said multiplexer, a third input receiving the parameter and an output connected to said computation unit; or

a subtracting unit connected between said program counter and said computation unit for the relative addresses, said subtracting unit having a first input connected to said program counter, a second input connected to said multiplexer, a third input receiving the parameter and an output connected to said computation unit

~~a memory for storing an instruction length and having an output connected to said first input of said multiplexer.~~

Claim 10 (new): A microprocessor for processing various assembler codes, comprising:

a multiplexer having a first input, a second input for receiving a 0 value, and a third input receiving a parameter

Applic. No. 09/928,011
Response Dated July 19, 2007
Responsive to Office Action of April 19, 2007

designating a respective assembler code and, depending on how the parameter is set, a different relative addressing takes place;

a program counter;

a computation unit for computing relative addresses;

a memory for storing an instruction length and having an output connected to said first input of said multiplexer;

an adding unit connected between said program counter and said computation unit, said adding unit having a first input connected to said program counter, a second input connected to said multiplexer, a third input receiving the parameter and an output connected to said computation unit;

a subtracting unit connected between said program counter and said computation unit for the relative addresses, said subtracting unit having a first input connected to said program counter, a second input connected to said multiplexer, a third input receiving the parameter and an output connected to said computation unit; and

Applic. No. 09/928,011

Response Dated July 19, 2007

Responsive to Office Action of April 19, 2007

said adding unit and said subtracting unit being a combined
unit.